

AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1.-39. (Cancelled)

40. (**Currently Amended**) A three-dimensional printing system to print a three-dimensional object, comprising:

~~a printing apparatus to print three-dimensional objects, wherein said printing apparatus comprises:~~

one or more [[a]] printing head heads;

two or more cartridges a-cartridge apparatus to provide modeling material building materials to print said three-dimensional object;

two or more sensors a-sensor to determine the status of modeling building materials material in said cartridges at-cartridge apparatus; and

a controller to control said printing apparatus, to receive data from said sensors sensor, and to control switching of building material supply sources from one cartridge apparatus to another.

41. (**Currently Amended**) The system of claim 40, wherein each of said sensors is associated with a respectiver one of said cartridges sensors comprises also part of said cartridge apparatus.

42. (**Currently Amended**) The system of claim 40, wherein the ~~sensor is a~~ sensors are mass sensors sensor.

43. (**Currently Amended**) The system of claim 40, wherein said two or more cartridges cartridge apparatus comprises are arranged as part of a cartridge array.

44. (**Currently Amended**) The system of claim 40, wherein said cartridges comprise cartridge apparatus comprises a cartridge casing, said casing including a memory device reader.

45. (**Currently Amended**) The system of claim 40, wherein at least one of said cartridges cartridge apparatus comprises is coupled to a memory device to record data relating to modeling building material in [[a]] the cartridge.

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46. **(Currently Amended)** The system of claim 40, wherein at least one of said cartridges ~~cartridge~~ apparatus comprises a bag to store said ~~modeling~~ building material.

47. **(Currently Amended)** The system of claim 40, ~~wherein said printing apparatus includes further comprising~~ a valve matrix coupled ~~connecting said printing apparatus to said two or more cartridges~~ ~~cartridge~~ apparatus, to control supply of ~~modeling~~ building materials from said ~~cartridges~~ ~~cartridge~~ apparatus to said printing apparatus heads.

48. **(Currently Amended)** The system of claim 47, wherein said valve matrix includes an outgoing tube for each type of building material required by said printing apparatus heads.

49. **(Currently Amended)** The apparatus system of claim 47, wherein upon lowering of the level of said building material in any one ~~cartridge in said~~ array of said two or more cartridges to a pre-determined amount, said valve matrix is adapted to automatically switch material sources.

50. **(Currently Amended)** The system of claim 40, wherein said controller is to calculate material parameters from building materials in one or more of said cartridges ~~cartridge~~ apparatuses, based on data of ~~modeling~~ building material in said ~~cartridges~~ ~~cartridge~~ apparatus.

51. **(Previously Presented)** The system of claim 40, further comprising a source of electromagnetic radiation.

52. **(Currently Amended)** The system of claim 51, wherein the source of electromagnetic radiation is disposed within one of said cartridges ~~cartridge~~ apparatus.

53. **(Currently Amended)** The system of claim 40, further comprising a curing unit adapted to cure ~~three-dimensional printing~~ remnant building material within one of said ~~cartridges~~ ~~cartridge~~ apparatus using electromagnetic radiation.

54. **(Currently Amended)** The system of claim 46 ~~[[40]]~~, wherein said bag ~~printing~~ apparatus is to ~~inflate a cartridge bag~~ inflatable and to enable curing of remnant building ~~cure~~ material ~~within a cartridge apparatus~~.

55. **(Currently Amended)** A printing method, comprising:

measuring data on the status of ~~three-dimensional~~ building ~~modeling~~ material
for three-dimensional printing in two or more cartridges ~~a modeling material~~
source;
determining parameters of said ~~modeling~~ building material; and

controlling a supply of said ~~modeling building~~ material from ~~two or more said material sources~~ any of said cartridges to one or more printing heads according to said parameters.

56. **(Previously Presented)** The method of claim 55, wherein said controlling of material supply is enabled by controlling a valve matrix.

57. **(Previously Presented)** The method of claim 55, further comprising sending an alert to an operator.

58. **(Currently Amended)** The method of claim 55, wherein measuring material status includes measuring the mass of said ~~modeling building~~ material in said cartridges ~~a printing cartridge~~.

59. **(Currently Amended)** The method of claim 55, comprising computing an amount of ~~modeling building~~ material required to print an object.

60. **(Currently Amended)** The method of claim 55, comprising computing an amount of time remaining before one of said a printing cartridges ~~cartridge~~ requires replacement.

61. **(Currently Amended)** The method of claim 55, comprising alerting an operator if one of said a printing cartridges ~~cartridge~~ requires replacement.

62. **(Currently Amended)** The method of claim 55, comprising automatically switching supply sources for said ~~modeling building~~ material if one of said a printing cartridges ~~cartridge~~ requires replacement.

63. **(Currently Amended)** [[A]] The method of claim 55 comprising:

generating electromagnetic radiation;

channeling said electromagnetic radiation into one of said a printing cartridges ~~cartridge~~;

~~curing three-dimensional modeling to cure remnant building~~ material contained within said cartridge; and

~~controlling said generating, channeling and curing from a three-dimensional printer.~~

64. **(Currently Amended)** The method of claim 63 24, comprising inflating a cartridge bag to enable said electromagnetic radiation to reach substantially all parts of said cartridge bag.